रजिस्ट्री सं० डी-(डी)—78 REGISTERED NO. D-(D)-78

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 14] नई दिल्ली, शनिवार, अप्रैल 8, 1978 (चैत्र 18, 1900)
No. 14] NEW DELHI, SATURDAY, APRIL 8, 1978 (CHAITRA 18, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके ।
Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2
PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

Calcutta, the 8th April 1978

PATENTS AND DESIGNS

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under the Section 135 of the Act.

2nd March 1978

224/Cal/78. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Equipment for injecting fuel in air-compressing internal combustion engines.

225/Cal/78. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Air-compressing direct- Injection internal combustion engine.

226/Cal/78. James Mackie & Sons Limited. Improvements relating to winding. (March 4, 1977).

3rd March 1978

227/Cal/78. Bijon Kumar Biswas. Dual filamented electric lamp.

228/Cal/78. Mayur Chemical Industries. Process of making tarbonded and tar-impregnated refractory shaped masses.

229/Cal/78. Sandvik Aktiebolag. Improvements in or relating to cutting tools. (March 3, 1977). [Addition to No. 131037].

230/Cal/78. Dana Corporation. Piston ring assembly and method of making same.

231/Cal/78. Boehringer Mannheim GmbH. Aziridine derivatives. (March 7, 1977).

232/Cal/78. Gosudarstvenny Vsesojuzny Institut Po Proektirovaniju Predpriyaty Koxokhimicheskoi Promyshlennosti. Heating wall for coke ovens.

233/Cal/78. Emhard Industries, Inc., Rotary snubber for linear actuator.

234/Cal/78. Anil Verman and Harish Talwar. A carrier.

4th March 1978

235/Cal/78. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Multi-Hole injection nozzle.

236/Cal/78. C. C. L. Systems Limited. Swaging dies. [Divisional date August 4, 1976].

6th March 1978

237/Cal/78. Vireco A. G. Film drive system. (March 9, 1977).

238/Cal/78. Akteibolaget IRO. Thread delivery device for textile machines.

239/Cal/78. Saint-Gobain Industries. Articles of plastics material.

240/Cal/78. Dr. Pranab Kumar Biswas. Water distillation apparatus.

7th March 1978

241/Cal/78. The Boots Company Limited. Preparation of therapeutic agents. (March 8, 1977).

242/Cal/78. Shell Oil South Africa (Proprietary) Limited. Solar water heater. (November 14, 1977).

243/Cal/78. Shell Oil South Africa (Proprietary) Limited. Mounting of solar water heaters. November 14, 1977).

244/Cal/78. Phillips Petroleum Company. Production of single cell protein.

245/Cal/78. Indian Oxygen Limited. Improved valve and seat assembly for use with or in gas pressure regulators.

8th March 1978

246/Cal/78. Rheinmetal GMBH Surface protection for ammunition with combustible cartridge case or ammunition without cartridge case.

247/Cal/78. Knorr-Bremse GMBH. Three- pressure control valve for compressed-air brakes or rail vehicles.

248/Cal/78. Macgregor International S.A. Cover arrangement for a container. (March 16, 1977).

249/Cal/78. Przedsi Ebiorstwo Projektowania I Dostow Kompletnych Obiektow przemyslowych. "Chemadex" W Warszawie, Oddrial NR. 1 W Krakowia Krakow- Poland. A process for the production of phosphoric acid and salts thereof. [Divisional date January 28, 1976].

250/Cal/78. Przedsi Ebiorstwo projectowania I Dostow Kompletnych Obiektow Przenyslowych "Chemadex" W warszawie, Oddrial NR. 1 W Krakowie Krakow-Poland. A process for the production of chalk. [Divisional date January 28, 1976].

251/Cal/78. Chlorine Engineers Corporation Ltd., Bipolar Electrode and method for the production thereof.

252/Cal/78. Reynolds Metals Company. Thin molybdenum coatings on aluminum for solar energy absorption.

APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

27th February 1978

26/Mas/78. S I. Krishna Iyer. A louvre-window.

27/Mas/78 The Hyderabad Allwyn Metal Works Limited. A cooking oven.

28/Mas/78 Universal Packaging Private Ltd. Greasol-Degreasing cleaning compound.

29/Mas/78 Godla Lokanathan. A process of prepariny a fuel composition for furnishing high temperatures and energy during combustion and a method of combusting the said fuel composition.

30/Mas/78. R N. Balasundaram & R. N. Doraiswamy. A device for alternately energising slow and fast electric motors over predetermined intervals of time.

28th February 1978

31/Mas/78. V. Gopal. Motor cycles.

3rd March 1978

32/Mas/78. Smt. Sakunthala Sundaram. Collapsible wedge gate assembly of self-aligning and self-adjusting type with interlocking plates'-for use in gate valve with guide grooves in valve body.

35/Mas/78. Smt. Sakunthala Sundaram. Collapsible wedge gate assembly of self-aligning and self-adjusting type with interlocking plates'-for use in gate valves with guide ribs in valve body.

ALTERATION OF DATE

148/Bom/77. Post-dated 30th April, 1977.

144204. } Ante-dated 28th May, 1974.
649/Cal/76 }

144211. } Ante-dated 26th November, 1974.
627/Cal/77. }

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules. 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect or each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2 (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanies by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be assertained on application to that office.

CLASS 29-D. 144103.
Int Cl -G06f 7/00.

DEVICE FOR DETERMINING THE NATURE OF RELATIONSHIPS OF TWO DATA UNITS.

Applicant & Inventor: JEAN MARIE MICHAEL PAUL BLANIE, OF 282, RUE SAINT JACQUES, PARIS 5EME, FRANCE.

Application No. 2767/Cal/74 filed December 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

50 Claims.

Device for determining the nature of relationships between on the one hand data peculiar to one unit or a group of separate units, and on the other hand data of another unit or another group of separate units pertaining to the same assembly, comprising a support corresponding to each unit or group of untis, each support being arranged by means of a system of addresses, wherein on the support corresponding to each unit or groups of separate units are inscribed, at any address, corresponding to the date peculiar to the other units or group of separate units, one or more symbols distinctive of each nature of relationship between the date peculiar to the unit or groups of separate units corresponding to each support and the data peculiar to the other units or groups of units of the assembly.

CLASS 40-H. & 32B. 144114
Int. Cl. B01d 53/04; C07c 7/12.

IMPROVED ADIABATIC PRESSURE SWING PROCESS FOR THE PRODUCTION OF PURIFIED METHANE FROM CRUDE METHANE FEED GAS.

Applicant: UNION CARBIDE CORPORATION, OF 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK, 10017, UNITED STATES OF AMERICA,

Inventors : LOUIS BELA BATTA, (2) KISHORE JASRAJ DOSHI, (3) FREDERICK SALVATORE DI PAOLO.

Application No. 2879/Cal/74 filed December 31, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An adiabatic pressure swomg/process for purifying crude methane feed gas containing impurities comprising water, less than 15 volume percent C_2-C_5 hydrocarbons, less than 5 volume percent carbon dioxide and less than 1 volume percent C_6 and higher hydrocarbons wherein said methane feed gas is introduced at highest process pressure to the inlet end and the impurities are selectively adsorbed in each of at least two sequentially operated adsorption zones and impurity-depleted methane is discharged therefrom so that impurity adsorption fronts are formed in the zone at the feed gas inlet end and progressively move toward the purified methan discharge end, the feed gas flow is terminated when the impurity adsorption fronts are intermediate the zone inlet and discharge ends, impurity-depleted methane gas is released from the adsorption zone discharge end thereby cocurrently depressurizing the adsorption zone to lower pressure the depressurized zone is purged of said impurities by flowing one part of the impurity-depleted methane gas from another adsorption zone countercurrently therethrough from said discharge end to said inlet end.

the purged zone is at least partially repressurized by another part of said impurity-depleted methane gas from another adsorption zone prior to reintroduction of said feed gas to said inlet end, silica gel is employed as the adsorbent in said adsorption zone, and the selective adsorption is step is conducted as temperature of 50-150°F and pressure of 90-365 psia.

CLASS 32F$_3$a. 144203.
Int. Cl. C07c 87/50.

PROCESS FOR THE PRODUCTION OF DIPHENYLAMINE.

Applicant : BAYER AKTIENGESELLSCHAFT, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

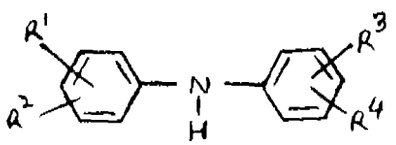
Inventors : HERMANN -DIETER KRALL, (2) OSKAR WELSSEL, (3) HANS-HELMUT SCHWARZ.

Application No. 591/Cal/76 filed April 3, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

Process for the production of diphenylamines of the formula 1.



which R^1, R^2, R^3 and R^4 are identical or different and represent hydrogen, alkyl radicals with up to 4 C atoms or alkoxy radicals with up to 4 C atoms, by catalytic dehydrogenation of the corresponding wholly or partially hydrogenated diphenylamines, characterised in that a nickel/chromium catalyst containing also manganese and/or aluminium and/or copper and/or sulphates of the alkali metals or alkaline earth metals is used.

CLASS 32F$_3$b. 144204.
Int. C07 35/00.

NEW SULFUR CONTAINING HETEROCYCLIC COMPOUNDS AND A PROCESS FOR THE PREPARATION THEREOF.

Applicant : CHINOIN GYOGYSZER ES VEGYESZETI TERMEKEK GYARA RT., OF 1-5, TO U., BUDAPEST IV, HUNGARY.

Inventors : DR. KALMANHARSANY I. (2) KALMAN TAKACS. (3) PAL KISS. (4) DR. LASZLO SZEKERES. (5) DR. GYULA PAPP.

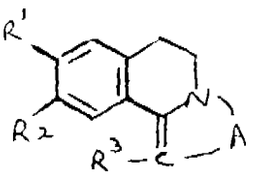
Application No. 649/Cal/76 filed April 15, 1976.

Division of Application No. 1168/Cal/74 filed May 28, 1974.

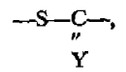
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

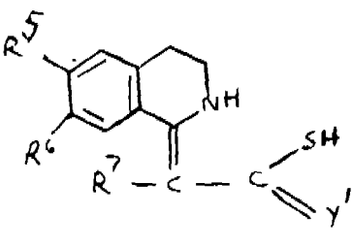
A process for the preparation of a new thiazoloisoquinoline of the general formula 1.



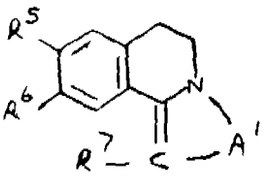
or a salt thereof, wherein A stands for a group of the formula



R^1 stands for hydrogen, hydroxy, alkoxy or aralkoxy, R^2 stands for hydrogen, hydroxy, alkoxy or aralkoxy, R^3 stands for hydrogen, alkyl aryl, nitro, carboxy or a carboxy derivative, and Y stands for a group of the formula $=N\text{-}R^4$ wherein R^4 stands for hydrogen, alkyl, aryl, acyl, alkylsulfonyl or arylsulfonyl, in which an isoquinoline of the general formula III.



wherein R^5 stands for hydrogen, hydroxy, alkoxy or aralkoxy, R^6 stands for hydrogen, hydroxy alkoxy or aralkoxy, R^7 stands for hydrogen, alkyl, aryl, carboxy or carboxy derivative and Y' stands for oxygen sulfur or a group of the formula $=NR^8$ wherein R^8 represents hydrogen, alkyl, aryl, arylsulfonyl or alkylsulfonyl, is oxidized in a conventional manner and if desired substituents A', R^5, R^6 and R^7 of the obtained thiazolo-isoquinoline of the formula IA.



wherein A^1 stands for a group of the formula 

and R^5, R^6, R^7

and Y^1 each have the same meanings as defined above and are each inter convertible into required groups in a conventional manner, and if desired, the obtained thiazolo-isoquinolines of the general formula (I). are converted in a conventional manner into their salts or the compounds of the general formula (I) are liberated from the corresponding salts in a conventional manner.

CLASS 40F & 144A. 144205.
Int. Cl. C08f 1/98.

PROCESS FOR COATING THE INTERNAL SURFACES OF A REACTION VESSEL FOR USE IN OLEFINIC POLYMERIZATION.

Applicant : THE B.F. GOODRICH COMPANY, OF 277 PARK AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : DONALD EDWARD WITENHAFER, (2) JAMES BERNARD HAEHN, AND LOUIS COHEN.

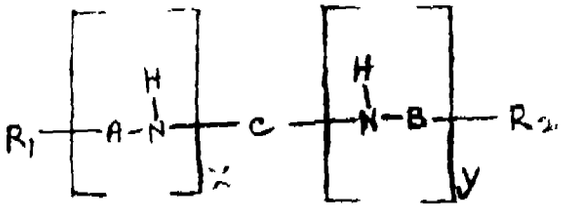
Application No. 665/Cal/76 filed April 19, 1976.

Convention date March 2, 1976 (180169/76) New Zealand.

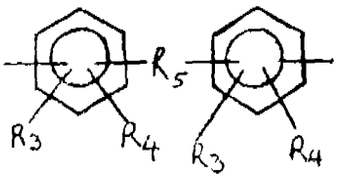
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims.

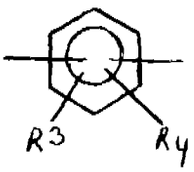
A process for coating the internal surfaces of a polymerization reaction vessel which comprises applying to said surfaces a coating solution comprised of a straight chain or branched polyaromatic amine having a molecular weight greater than about 250 dissolved in an aqueous alkali metal hydroxide solution, said polyaromatic amine having the structure selected from the group shown in Fig. 2.



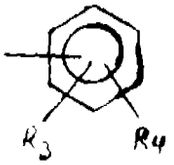
wherein A, B and C are either a group of the formula shown in Fig. 4.



wherein R_8 is —N— or a straight chain or branched alkylene or alkylidene group containing from 1 to 5 carbon atoms, or a group of the formula shown in Fig. 5.

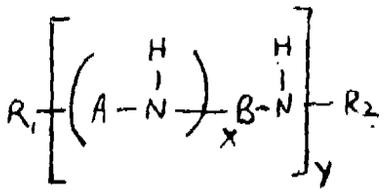


and wherein A, B and C may be the same or different and each repeating unit may be the same or different; R_1 and R_2 are either —H, —OH, —NH_2 or a group of the formula shown in Fig. 6.



and may be the same or different; R_3 is -H, halogen, or an alkyl group containing from 1 to 8 carbon atoms and may be the same or different; R_4 is -H, -OH, NH_2or an alkyl group containing from 1 to 8 carbon atoms and may be the same or different; X is an integer from 1 to 20; and y is an integer from 0 to 20;

and the group shown in Fig. 3.



wherein A and B are the same as in Fig. 2; R_1, R_3, R_4, and R_5 are the same as in Fig. 2; R_2 is H, or a group of the formula shown in Fig. 6 of the drawings, x is an integer from 1 to 4 and y is an integer from 1 to 15 whereby the build up of polymers on said surfaces is substantially eliminated.

CLASS 39C. 144206.
Int. Cl.-C01c 1/10.

CONTINUOUS PROCESS OF RECOVERING PURE, CONCENTRATED AMMONIA.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D 6 FRANKFURT AM MAIN, AND CHEMIE LINZ AG, A 4021 LINZ-ST. PETERSTRASSE 25, BOTH FEDERAL REPUBLIC OF GERMANY.

Inventors : ALFRED GARBER, (2) HANS-MARTIN STONNER, (3) PAUL WIESNER, (4) ALAN SINCLAIR AND DR. ALFRED SCHMIDT.

Application No. 803/Cal/76 filed May 7, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A continuous process of recovering pure, concentrated ammonia, which contains not more than 0.2% H_2O, 0.1% CO_2 10 ppm H_2S, and 10 ppm HCN, from aqueous liquors which have been preferably freed from dust, tar, oil, and phenols and which consist particularly of condensates formed during the gasification or degasification of coal, or from aqueous liquors of similar composition, which contain free and/or combined ammonia in concentration between 0.1 and 12 preferably between 0.3 and 3 n, carbon dioxide in concentrations between 0.1 and 12 n, preferably 0.2 to 3 n, hyrodgen sulfide in concentrations between 0.003 and 3 n, preferably 0.03 to 0.3 n, hydrocyanic acid in concentrations between 0.001 to 1 g/1, and possibly residual organic substances introduced during a preceding dephenolation, which process comprises the known steps of stripping off gas water, de-acidification, scrubbing, and withdrawing ammonia from the top of a scrubbing column, characterized by the following process steps :

(a) Ammonia is stripped from the aqueous mixture in a stripping column having 15-80, preferably 40-60, actual plates and/or equivalent packing columns operated under a pressure of 1-2 bars and with an inlet temperature of 30-90°C. preferably 40-60°C, the ammonia and the acid constituents being jointly withdrawn from the top of the column and waste water being withdrawn from the sump of the column,

(b) The ammonia-containing gas mixture which has thus been stripped off is scrubbed with an aqueous solution which contains surplus ammonia and from which the acid constituents have been removed to a large extent under a pressure of 1-2 bars and at temperature of 30-70°C and pure ammonia is withdrawn overhead and is subjected to a fine purification, if desired, in known manner by being liquefied and treated to remove inert constituents;

(c) in a stripping column having 3-25, preferably 5-15 plates, or equivalent packing columns, most of the residual ammonia is stripped from the spent scrubbing liquor obtained in step b); the stripping column is operated under 1-2 bars, at top temperatures of 50/80°C, preferably 55-70°C, and sump temperatures of 60—90°C, preferably 70—80°C, and ammonia is withdrawn overhead and recycled to step b); and

(d) Aqueous solutions having a (CO_2+H_2S) : NH_3 ratio $\geq$ 1 are de-acidified under supernatmospheric pressure in that the acid constituents are stripped in a pressure de-acidification column operated under a pressure of 3-25 bars, preferably

3-7 bars, and with sump temperatures of 110-180°C, preferably 135-150°C, and are withdrawn from the top of said column,

which steps are carried out in the sequence (a), (b), (c), (d), and the sump product of step c) is subjected tostep d) in the processing of solutions in which the (CO_2+H_2S) : NH_3 weight ratio $\leq$ 1 whereas the feed solution is subjected to the pressure de-acidification step d) and this is succeeded by steps (a), (b), (c) in the processing of solutions having a (CO_2+H_2S) : NH_3 weight ration $\geq$ 1.

CLASS 119F$_3$. 144207.
Int. Cl.-D03j 5/00.

LOOM SHUTTLES.

Applicant : LEDER & CO., AG. OF 30 FLUHSTRASSE, 8640 RAPPERSWIL (KT. ST. GALLEN), SWITZERLAND.

Inventors : THEO KENK AND ERHARD KENK.

Application No. 865/Cal/76 filed May 18, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

An automatic weaving shuttle having a body formed with a recess for receiving a bobbin, apertures in the body and communicating with said recess, a substantially U-shaped bobbin retaining insert located by force fit engagement in said recess and having anchoring pegs correspondingly shaped relative to and engaging the apertures to assist in the retention of the insert within the recess, said insert being formed with two legs and a cross-piece connecting said legs, guides provided in said legs and arranged in pairs, bobbin retaining dogs movable within said guides, helical springs acting on the dogs, a projection on the crosspiece, a spigot slidably mounted in the projection and protruding through the cross-piece and a helical spring arranged within the projection to act on the spigot, whereby when a bobbin is arranged within the shuttle the guides lie in their pairs on both sides of the central longitudinal plane of the bobbin, the helical springs urge the dogs into engagement with the bobbin for centering the bobbin within the recess.

CLASS 42D. 144208.
Int. Cl.-A24b 5/00, 5/16.

APPARATUS FOR ORIENTING TOBACCO LEAVES.

Applicant : KONINKLIJKE BEDRIJVEN THEODORUS NIEMEYER B.V., OF NO. 43, PATERSWOLDSEWEG, GRONINGEN, THE NETHERLANDS AND JOH. H. ANDRESEN, OF NO. 5, JOH. H. ANDRESENS VEI, OSLO, NORWAY.

Inventors : JAN ADOLF VAN SLUIS, FRANS REMKO REINHART & ROLF PEDERSEN.

Application No. 900/Cal/76 filed May 24, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

Apparatus for orienting tobacco leaves, provided with take-up means for taking up fed tobacco leaves, conveyor means in the form of an conveyor belt acting as a carrier belt providing a carrier surface for taking over the taken-up tobacco leaves and conveying the same in at least substantially horizontal direction of conveyance, delivery means for transferring and delivering the tobacco leaves conveyed by the conveyor means, conveyor belts acting as pressure belts with vertical operative surfaces adapted to act laterally on tobacco leaves resting on said carrier surface, a pair of said pressure belts forming together with the carier belt a conveying channel, and means for moving the operative surfaces of the pressure belts closer together in the direction of conveyance, characterized in that a number of conveyor channels (400) which are open at the top and which extend side by side in the direction of conveyance and which are each formed by a carrier belt (210) which is common to all the channels and the at least substantially horizontal carrier surface (200) of which, driven in the direction of conveyance, can carry the received tobacco leaves, and a pair of conveyor belts (310) which act as pressure belts and which with their at least substantially vertical operative surfaces (300) driven in the direction of conveyance extend opposite on another and can act laterally on the received tobacco leaves, two adjoining conveyor channels (400) being separated from one another by the operative surface (300) of a single pressure belt (310) operative for both channels, while a number of successive operative surfaces (300) in the perpendicular direction with respect to the direction of conveyance are associated with driven conveyor belts (310) disposed successively one around the other and acting as pressure belts, and an elongate side element (501) is provided which presses against the rear of the outermost operative surface (300) as considered in the said perpendicular direction, the distance between the side element (501) and the operative (300) of the other pressure belt of the pair defining a channel (400) together with the outermost operative surface (300) is less than the distance between the rollers (320) supporting said two pressure belts at the start of their operative surfaces (320).

CLASS 128G. 144209.
Int. Cl.-A61b 5/02.

A DEVICE ADAPTED TO DISPLAY THE PULSE BEAT OF A PATIENT.

Applicant & Inventor : DR. ZAL KUTAR, 61, VASANT MARG, VASANT VIHAR, NEW DELHI, INDIA.

Application No. 985/Cal/76 filed June 7, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

A device for measuring the number of beats of a human pulse comprising a sealed chamber, the base of which is covered by a flexible membrane, a liquid such as mercury contained within said chamber, a transparent tube extending from the chamber, the lower end thereof being dipped in the liquid within the chamber, so that when the chamber is placed on the pulse, the beats of the pulse communicate the impulses to the liquid which with every beat rises in the tube to be visible.

CLASS 32F$_2$a. 144210.
Int. Cl.-C07d 91/10.

IMPROVEMENTS IN OR RELATING TO ELECTRO-CHEMICAL OXIDATION OF ORTHO TOLUENE SULPHONAMIDE TO SACCHARIN.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors : HANDADY VENKATAKRISHNA UDUPA, MYSORE SESHAIYER VENKATACHALAPATHY AND SANKARA NARAYANAIYER CHIDAMBARAM.

Application No. 99/Cal/76 filed January 19, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims. No drawings.

A cyclic process for the preparation of saccharin by electrochemical oxidation of ortho toluene sulphonamide with chromic acid and sulphuric acid characterised in that chromic acid obtained by the process as claimed in Indian Patent No. 95425 is used, the chromium sulphate obtained in the reaction mass by above stated electrochemical oxidation of o-toluene sulphonamide is purified to remove organic matter and is sent to regenerate chromic acid by the process of said patent No. 95425 and the chromic acid thus obtained is again used with sulphuric acid to oxidise o-toluene sulphonamide to saccharin in a cyclic process.

CLASS 185E. 144211.
Int. Cl.-A23f 3/00.

A PROCESS FOR PREPARING A FLAVOURED BEVERAGE BY THE ADDITION OF AN AGENT CONTAINING GERANYL ACETONE AND δ DECALACTONE.

Applicant : NESTLE'S PRODUCTS LIMITED, OF NESTLE HOUSE, COLLINS AVENUE, NASSAU, BAHAMAS.

Inventors : IAN HORMAN AND PAUL CAZENAVE.

Application No. 627/Cal/77 filed April 27, 1977.

Division of Application No. 2633/Cal/74 filed November 26, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims. No drawings.

A proces for preparing a flavoured beverage based on tea, wherein a flavouring agent comprising a mixture of general acetone and δ -decalactone is added to the beverage.

CLASS 31A. 144212.
Int. Cl.-B28b 1/00.

SINTERED UNITARY CERAMIC BODIES, AND METHOD OF MAKING THEM.

Applicant : NL INDUSTRIES INC, OF 111 BROADWAY, NEW YORK, NEW YORK 10006, UNITED STATES OF AMERICA.

Inventors : TRUMAN CLIFFORD RUTT AND JAMES ALBERT STYNES.

Application No. 2096/Cal/74 filed September 20, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

32 Claims.

A sintered, unitary ceramic body comprising a plurality of strata of a dielectric or electrically insulating ceramic material, having between at least two of the said strata, at least one thin cavity there-between, at least one pillar of ceramic material or of refractory metal and extending between and contacting the adjacent strata, in the cavity, each of the said pillars being distinct and, where there are a plurality of pillars separate, and the body having an opening into the said cavity.

CLASS 102B & 166E. 144213.
Int. Cl.-F15b 15/04, B63h 25/38.

OSCILLATING FLUID-DRIVEN ACTUATOR.

Applicant : JOHAN TENFJORD MEK, VERKSTED, OF TENNFJORD, NORWAY.

Inventor : JENS KARL TENJFORD.

Application No. 2564/Cal/74 filed November 19, 1974.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

In an oscillating fluid-driven actuator for a driving shatt, of the kind having

(i) an actuator housing comprising upper and lower housing members having an internal face defining an annular segment-shaped chamber substantially coaxial with the shaft.

(ii) an annular segment-shaped piston arranged coaxially with the shaft in the chamber and fixedly connected to the shaft by a central hub, and

(iii) an arm extending between the hub and the annular piston at a point of said annnular piston intermediate its ends, the peripheral extent of the piston being less than 360°,

the improvement in which, in combination :—

(a) said hub of said annular segment-shaped piston has a spherical bearing surface which cooperates with a corresponding spherical bearing surface in said actuator housing, and

(b) said piston includes an annular segment-shaped piston body and a respective piston head secured at each circumferential end of said piston body, said piston body being spaced from said internal face of said housing, said piston heads being in sealing abutment with said internal face and slidable along said internal face, said sealing heads each being movable relative to said piston body in a respective radial plane containing the axis of said hub,

Said upper housing member having a central top opening, and wherein there is provided a cover covering said top opening, and an upper housing bearing surface being provided on said cover co-operating directly with said hub,

whereby movements of said shaft and piston, out of coaxiality with said housing, can take place by relative movement between said piston body and piston heads.

CLASS 132C & 152E. 144214.
Int. Cl.-C08h 15/00.

A CONSTRUCTION MATERIAL, A PROCESS AND DEVICE FOR PRODUCING THE SAME.

Applicant : ETABLISSEMENTS PATURLE S.A., OF F-38380 ST. LAURENT-DU-PONT, FRANCE.

Inventor : RENE PATURLE.

Application No. 137/Cal/75 filed January 22, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

52 Claims.

A construction material consisting of a mixture which contains as its components at least one plastic such as herein described and at least one filter of a mineral and/or organic type such as herein described, said filler(s) comprising at least a share of the total weight of the mixture equal to that of said plastic(s), characterized in that it contains at least one thermoplastic as the plastic component and that the mixture consisting of thermoplastics contains low-density polyethylene with high fluidity.

CLASS 205H. 144215.
Int. Cl.-B60c 9/06.

PNEUMATIC TYRES.

Applicant : DUNLOP LIMITED, OF DUNLOP HOUSE, RYDER STREET, ST. JAMES'S, LONDON S.W. 1., ENGLAND.

Inventor : EDWIN LESLIE WARRILOW.

Application No. 623/Cal/75 filed March 29, 1975.

Convention date April 5, 1974/(15427/74) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A pneumatic tyre comprising a tread portion, a pair of sidewall portions each terminating in a tyre bead region and a pair of plies, at least one of said plies extending from one tyre head region to the other, there being provided in each sidewall portion between the two plies an insert of an elastomer extending from the shoulder region of the tyre and terminating radially inwardly of the mid-section height of the tyre when the tyre is mounted on a wheel rim and inflated to its normal working pressure.

CLASS 32E & 34A. 144216.
Int. Cl.-C08g 17/06, D01f 7/04.

AN ORIENTED FILAMENT OF POLYESTER AND A METHOD OF MAKING SAME.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, OF WILMINGTON DELAWARE, UNITED STATES OF AMERICA.

Inventors : JACOB JOHN KLEINSCHUSTER, TERRY CARL PLETCHER, JOHN RAYMOND SCHAFFGEN AND ROBER RALPH LUISE.

Application No. 934/Cal/75 filed May 9, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An oriented filament made in a conventional manner from a polyester comprising residues of one or more dihydric phenols and of one or more aromatic and/or cycloaliphatic dicarboxylic acids and having a flow temperature of at least 200°C and being capable of forming an anisotropic melt from which oriented filaments can be melt spun in the said conventional manner with the proviso that there are excluded :

(1) homopolyesters prepared from a dicarboxylic acid containing two rings linked by a chain of four or more chain atoms;

(2) homopolyesters prepared from an asymmetrical dicarboxylic acid and an asymmetrical dihydric phenol; and

(3) copolyesters prepared from reactants, of which 75 mol percent or more are the asymmetrical dicarboxylic acids and dihydric phenols recited in (2).

CLASS 104A. 144217.
Int. Cl.-C08c 1/14.

COABULATION OF RUBBER LATEX.

Applicant : THE BOARD OF THE RUBBER RESEARCH INSTITUTE OF MALAYSIA, OF 260 JALAN AMPANG, P.O. BOX 150, KUALALUMPUR, MALAYSIA.

Inventors : CHEONG SAI FAH AND LIM FONG PENG.

Application No. 1565/Cal/75 filed August 11, 1975.

Convention date September 2, 1974/(38321/74) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A method of geling natural rubber latex, which method comprises passing a continuous stream of the latex through a heat exchanger whose heating medium is maintained at a temperature of from 100°C to 400°C, so as to raise the temperature of the latex to from 60°C to 110°C whereby gelation of the rubber is caused to take place.

CLASS 40E & F. 144218.
Int. Cl.-B01d 53/14, B01j 1/22.

PROCESS FOR SEPARATING CARBON DIOXIDE FROM A GASEOUS MIXTURE.

Applicant : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, S.W. 1, ENGLAND.

Inventor : MERVYN EDWARD DENNANT TURNER.

Application No. 1896/Cal/75 filed October 3, 1975.

Convention date October 14, 1974/(44408/74) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A process of the kind described for separating, by means of an absorbing solution, carbon dioxide from a gaseous mixture containing carbon dioxide and one or more gases not absorbed by the absorbing solution, which solution is an aqueous solution of a carbonate, phosphate, borate or phenate of sodium, potassium or ammonium, wherein at least 0.02% by weight of an aromatic compound having at least one nitro compound and at least one hydroxyl group substituted in the same benzene nucleous, such as herein described, are added to the solution.

CLASS 40F. 144219.
Int. Cl.-B01d 43/00.

PROCESS OF SEPARATING AND RECOVERING SOLIDS AND CLEAR LIQUID PHASE FROM DISPERSIONS.

Applicant : METALLGESELLSCHAFT A.G., OF 16 FRANKFRURT A.M., REUTERWEG 14, WEST GERMANY.

Inventors : DR. THOMAS SIMO AND DR. ROLAND RAMMLER.

Application No. 2068/Cal/75 filed October 28, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

An improved process for separating solids from a dispersion obtained from heterogenous catalytic processes carried out in the liquid phase, said dispersion having solids dispersed in a mixture of liquid hydrocarbons which process comprises obtaining a solids enriched sludge phase and a low solids content liquid hydrocarbon phase by separating the dispersion the improvement comprising adding to said sludge phase a liquid which has a higher density than the hydrocarbons and is immiscible therewith, and wherein the resulting mixture is centrifuged to separate the solids from the liquid constituents of the mixture and said liquid constrituents are separated into said added liquid and the mixture of hydrocarbons.

CLASS $32F_{36}$ 144220.
Int. Cl. C07d 49/36.

PROCESS FOR THE PREPARATION OF 5-ACETOACETYLAMINO-BENZIMIDAZOLONE (2).

Applicant : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN-80, FEDERAL REPUBLIC OF GERMANY.

Inventors : WILFRIED SAHM, (2) ERNST HILLE, (3) WOLFGANG SCHILLER.

Application No. 735/Cal/75 filed April 27, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims. No drawing.

A process for the preparation of 5-acetoacetylamino benzimidazolone-(2) which comprises reaching diketene with an aqueous solution of a salt of 5-amino-benzimidazolone-(2) and an acid having a pKa value of 1 to 7.

CLASS $32A_1$ & F_{11} 144221.
Int. Cl.-C07c 103/12.

PROCESS FOR THE PREPARATION OF N-ACETOACETYL-2, 5-DIMETHOXY-4-CHLOROANILIDE.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN-80 FEDERAL REPUBLIC OF GERMANY.

Inventors : EMMERICH PASZTHORY, (2) ERNST HILLE (3) KARLGERHARD SEIFERT, & (4) VINCENZ ZIMMERMANN.

Application No. 736/Cal/76 filed April 27, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims. No drawing.

A process for the preparation of N-acetoacetyl-2, 5-dimethoxy-4-chloroanilide which comprises suspending 2, 5-dimethoxy-4-chloroaniline in the water and adding at least one molar equivalent of diketene at the begining of the reaction.

CLASS $32F_1$. 144222.
Int. Cl.-C07c 87/22.

A PROCESS FOR PREPARING 3-(SUBSTITUTED)-2, 6-DINITROANILINES.

Applicant : ELI LILLY AND COMPANY, AT 307, EAST MCCARTY STREET, CITY OF INDIANAPOLIS, STATE OF INDIANA, UNITED STATES OF AMERICA.

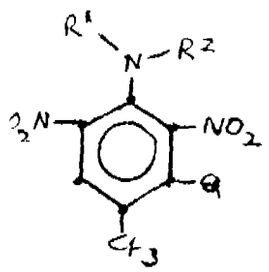
Inventor : JAMES RICHARD BECK & JOSEPH ANDREW YAHNER.

Application No. 1040/Cal/76 filed June 15, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A process for preparing 3-(substituted)-2, 6-dinitroanilines of the general formula I.



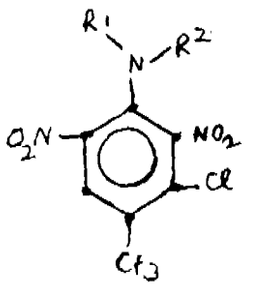
Q is NHCN, SCN, S-(C_1-C_4)-CN or $SCH_2CC_6CH_3$;

R^1 is hydrogen, C_1-C_3 nontertiary alkyl, C_3-C_4 alkenyl, chloro C_2-C_3 alkyl, chloro C_3-C_4 alkenyl or cyclopropylmethyl;

R^2 is C_2-C_7 nontertiary alkyl, C_3-C_4 alkenyl, chloro C_2-C_3 alkyl, chloro C_3-C_4 alkenyl, cyclopropylmethyl, C_3-C_4 alkynyl, tetraphydrofuryl C_1-C_3 alkyl or $N(R^3)_2$;

R^3 is C_1-C_3 alkyl; provided that R^2 is $N(R^3)_2$ only when R^1 is hydrogen;

and the triethylamine, puridine and alkali metal salts thereof when Q is NHCN, which is characterized by reacting a compound of the general formula II.



wherein R^1 and R^2 are defined as before, with a displacement agent such as sodium sulfide and cyanogen chloride when Q is SCN and cyanamid when Q is NHCN.

CLASS 179A. 144223.
Int. Cl. B67b 3/02.

A METHOD AND APPARATUS FOR APPLYING CLOSURES TO CONTAINERS.

Applicant : METAL BOX LIMITED, OF QUEENS HOUSE, FORBURY ROAD, READING R G I 3JH, BERKSHIRE, ENGLAND.

Inventors : FRANK GEORGE COLLIER RUTTER.

Application No. 1160/Cal/76 filed June 30, 1976.

Convention date July 12, 1975 (29371/75) U. K.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

9 Claims.

A method of applying a closure to a container having an externally threaded neck, said method including the steps of fitting a closure preform onto the neck, said preform having cover a peripheral skirt dependent therefrom which terminates in an inwardly curled free edge; applying a top pressure to sealingly engage sealing means in the preform, with the neck, and locally indenting the skirt portion so that the curl becomes locally engaged at each indent, with the threads of the neck.

CLASS 32E. 144224.
Int. Cl. C08f 19/06.

METHOD FOR THE PREPARATION OF COPOLYMERS WHICH CONTAIN CONJUGATED DIENE UNSATURATIONS.

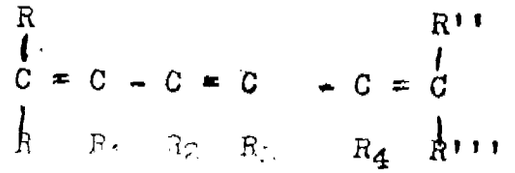
Applicant : ANIC S.P.A. OF VIA M. STABILE 216, PALERMO, ITALY.

Inventors : ALDO PRIOLA, SEBASTIANO CESCA, & GIUSEPPE FERRARIS.

Application No. 1344/Cal/76 filed July 28, 1976.

9 Claims. No drawing.

A method for the preparation of copolymers which contain in the polymer chain conjugated diene unsaturations, comprising the step of reacting an *iso* olefinic compound with a polyconjugated polyenic linear hydrocarbon, containing at least a system of three conjugated double bonds corresponding to the general formula :



wherein R, R', R'', R''', R_3 R_4, R_5, R_6 are equal to each other or different and can be hydrogen, or an alkyl, alkenyl, or an aryl radical containing up to 7 carbon atoms *in the presence of an aluminum alkyl catalyst.*

CLASS 49-H. 144225.
Int. Cl. A 47j 27/086.

AN EXTRUDER.

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, OF 61, RING ROAD, LAJPAT NAGAR-111, NEW DELHI-110004, INDIA

Inventors : KEZHEKEPAT RAGHUNANDAN & VARADU SESHAMANI.

Application No. 1405/Cal/76 filed August 5, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

An extruder comprising an elongate housing with a rotatable screw disposed therein, known heating means provided with said housing for cooking of the foods contained therein, said housing having an inlet and outlet and wherein a die plate is provided in said outlet characterized in heating means being provided with said die plate.

CLASS 49-H. 144226.
Int. Cl. A47j 27/08.

AN EXTRUDER.

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, OF 61, RING ROAD, LAJPAT NAGAR-111, NEW DELHI-110024, INDIA.

Inventors : KEZHEKEPAT RAGHUNANDAN & VARADU SESHAMANI.

Application No. 1406/Cal/76 filed August 5, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

An extruder comprising an elongate housing having any known heating means, said housing having an inlet and outlet a die plate provided at said outlet, a rotatable screw conveyor disposed within said housing and terminating at a distance away from said die plate, and such as a define a zone therebetween, gaseous injection means provided in said zone and directed towards the opening provided in said die plate.

CLASS 49H. 144227.
Int. Cl. A47j 27/08; 27/086.

AN EXTRUDER.

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, OF 61, RING ROAD, LAJPAT NAGAR III, NEW DELHI-110024, INDIA.

Inventors : KEZHEKEPAT RAGHUNANDAN & VARADU SESHAMANI.

Application No. 1408/Cal/76 filed August 5, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

An extruder comprising a mixer having an inlet and outlet and a rotatable shaft disposed therein, vanes being integrally provided with or held to said shaft, the outlet of said mixer connected to the inlet of a homogenizer, said homogenizer having if necessary additional inlets, a rotatable shaft with vanes disposed within said homogenizer the outlet of said homogenizer connected to the inlet of a cooking chamber, said chamber comprising an elongate housing with a rotatable screw conveyor disposed therein, a die plate provided at the outlet of said chamber and heating means provided with each of said mixer, homogenizer and cooking chamber.

CLASS 176-I. 144228
Int. Cl.-F22b 37/00.

A SYSTEM FOR EXTRACTING HEAT FROM THE COMBUSTION GASES BEING EXHAUSTED FROM THE FURNACES OF A STEAM GENERATOR.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, U.S.A.

Inventors : EARL KENNETH RICKARD.

Application No. 1601/Cal/76 filed August 31, 1976.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

3 Claims.

A system for extracting heat from the combusion gases being exhausted from the furnace of a steam generator, said system having a duct in which the hot gases from the furnace are flowing, said duct having an upstream end and a downstream end, a rotary regenerative air heater in said duct (between the said ends of the duct) characterised by the provision of a riffle plate arrangement positioned beneath the rotor of the said rotary regenerative air heator, said riffle plate arrangement including a plurality of first plates secured at one end to one end to the other or opposite side of the duct, the other ends of both said first and second plates extending inwardly and in a downstream direction to a point past the center of the duct, said first and second plates being of such number that they extend across and cover a major portion of the entire cross-section of the duct, the first and second plates running alternately with each other, so that their ends are internested and the first plates adapted to direct a portion of the relatively hot gases towards one side of the duct, and the second plates adapted to directed a portion of the relatively cool gases towards the other side of the duct to cause intermixing of the relatively hot and cool, gases thereby substantially eliminating the temperature unbalance in the gases in the duct.

CLASS 94-1. 144229.
Int. Cl C13d 1/06.

IMPROVEMENTS TO SUGAR CANE MILLS.

Applicant : FIVES-CALL BABCOCK, OF 7 RUE MONTALIVET, 75383, PARIS CEDEX 08, FRANCE.

Inventor : JEAN PIERRE GEORGET.

Application No. 1734/Cal/76 filed September 20, 1976

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

10 Claims.

A sugar cane mill comprising two lower cylinders mounted on two frames and an upper cylinder carried by two covers connected to the frames, wherein the upper cylinder has bearing blocks attached to the corresponding covers by means of one or more elastically deformable blocks so as to allow movement of the upper cylinder in relation to the covers in a direction approximately perpendicular to a plane containing the axis of the upper cylinder and the resultant of the compressive stresses during normal operation of the mill, the block or blocks being placed on either side of this plane.

CLASS 118B. 144230.
Int. Cl. F01d 17/00.

REFERENCE SIGNAL CIRCUIT.

Applicant : GENERAL ELECTRIC COMPANY, OF 1, RIVER ROAD, SCHENECTADY, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : ANTHONY JAMES ROSSI AND DONALD FRANCIS BEHRINGER.

Application No. 1822/Cal/76 filed October 5, 1976.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

8 Claims.

A prime mover control system wherein a reference signal is input into the control system through a reference signal circuit, the reference signal circuit including a signal storage means the reference signal circuit having an input end connected to a reference signal generator and an output end connected to the control system the output end following the input end except when the input end becomes invalide whereupon the output end follows the signal storage means, the reference signal circuit comprising a first signal channel connected to the input end of the reference signal circuit; a second alternate signal channel, including the signal storage means, connected to the input end of the reference signal circuit; signal update means connected to the signal storage means for providing a storage input update signal and a storage output update signal the input update signal and the output update signal having a time lag therebetween; and switching means connected to the first and second channel and to the signal update means; the switching means connecting the first channel to the reference signal circuit output end except when the input end becomes invalid whereupon the switching means connects the second channel to the reference signal circuit output end and interrupts the signal update means whereby the reference signal circuit output end follows the last output of the signal storage means.

CLASS 40C & 84C. 144231.
Int. Cl.-F23k 1/02.

PREPARATION OF SOLID FUEL-WATER SLURRIES.

Applicant : TEXACO DEVELOPMENT CORPORATION, OF 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : EDWARD LAWRENCE COLE, HOWARD VINCENT HESS AND FRANK EDWARD GUPTILL JR.

Application No. 1948/Cal/76 filed October 27, 1976.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

17 Claims. No drawings.

A proces for the preparation of a solid fuel-water slurry having a solids content between 50 and 60 wt.% on a dry basis, which comprises forming a mixture of finely-divided solid fuel and water, heating the mixture to a temperature between 300 and 700°F under non-oxidising conditions and under a pressure sufficient to maintain water in the liquid phase, cooling the mixture, adding a surface-active agent to the so-treated solid fuel and adjusting the water content to form a slurry containing between 40 and 50 wt.% water.

CLASS 32F$_2$b. 144232.

Int. Cl. C07d 51/48.

A PROCESS FOR OBTAINING A SUBSTITUTED QUINOXALINE EFFECTIVE FOR COMBATTING CHOLERA.

Applicant : ISTITUTO CHEMIOTERAPICO ITALIANO S.P.A. OF 12, VIA CROCEFISSO, MILAN, ITALY.

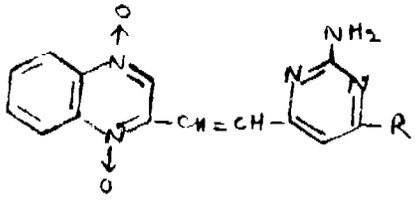
Inventor : ALDO GARZIA, (2) WILLIAM FERRARI, & ANDREA BOTTAZZI.

Application No. 394/Cal/77 filed March 17, 1977.

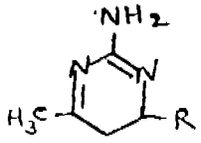
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

9 Claims.

A synthesis process for obtaining a substituted quinoxaline effective for combatting cholera, characterized in that substituted quinoxaline is obtained having a formula I.



wherein R is hydrogen or a lower alkyl C_1-C_5, by reacting in substantially 1 : 1 mole ratio quinoxaline-di-N-oxide-2, carboxyaldehyde or its lower alkyl acetal and a compound having the formula II.



wherein R is as indicated above, in the presence of a strong acid catalyst.

OPPOSITION PROCEEDINGS

An opposition has been entered by Unique Pharmaceutical Laboratories to the grant of a patent on application No. 142400 made by I. S. F. Spa.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

133158 133159 134839 135008 135272 136541 136543 136544 138547 136549 136553 136555 136556 136561 136562 136563 136565 136566 136567 136568 136571 136572 136575 136577 136578 136579 136580 136581 136584 136585 136586 136587 136588.

(2)

134186 136589 136591 136593 136594 136595 136596 136597 136598 136600 136603 136604 136605 136606

(3)

129104 134225 134929 136722 136723 136724 136725 136726 136727 136729 136730 136731 136732 136733 136734 136735 136736 136737 136740 136742 136744 136745 136746 136747 136748 136750 136752 136753 136754 136755 136756 136757 136758 136760

PATENTS SEALED

140350 141258 141366 141484 141587 141790 141852 141874 142033 142034 142055 142077 142092 142103 142104 142130 142153 142154 152157 142159 142161 142167 142174 142183 142217 142244 142245 142246 142252 142253 142254 142258 142260 142265 142274 142279 142280 142285 142289 142293 142294 142297 142298 142304 142311 142329 142331 142333 142335 142338 142343 142344 142347 142349 142350 142354 142355 142361 142367 142379 142385 142388 142390 142405 142409 142413 142415 142419 142429 142432 142433 142441 142444 142451 142452 142459 142486 142489 142527 142537 142550 142589 142649

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No. *Title of the invention*

85119 (20-4-72) Process for the production of N-(2, 3-dimethylphenyl) anthranilic acid.

85130 (20-4-72) Process for the production of N-(2, 3-dimethylphenyl) anthranilic acid.

98853 (20-4-72) Fermentation processes for cephalosporia.

126649 (20-4-72) Process for the production of new pyrazolodiazepinone compounds.

130041 (20-4-72) A process for the preparation of α-aminoalkyl-4-hydroxy-3-ureidobenzyl alcohols.

132258 (9-6-72) Process for the manufacture of pharmacologically valuable preparations for use as oral contraceptive.

132959 (20-4-72) Process for the production of new pyrazole [3, 4-e] [1, 4] diazepin-7 (1H)-one compounds.

133410 (20-4-72) Preparation of 1-alkyl-2-aminomethyl-pyrrolidines.

135179 (5-4-72) An improvement in or relating to reduction roasting of nickel-bearing ores.

135641 (27-4-72) Process for decomposing ammonium carbamate.

RENEWAL FEES PAID

77290 78501 78502 80852 81082 82814 84106 84679 84680 84681 84683 84684 85997 86391 87218 87338 87421 87548 87549 87550 92540 92554 92617 92679 92704 92833 92979 93137 93201 93258 93350 93652 93760 93849 94090 94091 95665 98223 98254 98300 98336 98357 98392 98606 98694 98796 98901 98903 98905 98962 100670 101824 103946 104159 104219 104226 104230 104271 104274 104300 104358 104448 104636 104794 104838 105045 105047 105048 106181 106681 107283 109074 109257 109283 109284 109286 109287 109589 109628 109654 109698 109727 109741 109783 109835 109840 109894 109949 110013 110143 110213 110233 110297 110362 110636 111172 111564 112402 114414 114469 114710 114800 114856 114873 114926 115001 115075 115102 115256 115423 115430 115566 116115 116828 117255 117386 117536 117600 120145 120247 120336 120356 120357 120373 120495 120529 120530 120538 120604 120721 120926 120979 121125 121159 122172 122173 122302 122332 123094 123694 124298

124525 125136 125282 125525 125531 125562 125568 125597
125622 125623 125632 125651 125690 125691 125717 125720
125721 125722 125820 125857 125869 125914 125970 125979
125990 126024 126056 126095 126110 126186 126267 126299
126514 126809 127283 128261 128809 128811 128812 130539
130560 130582 130589 130592 130626 130634 130644 130669
130688 130740 130769 130853 130930 130948 131013 131026
131032 131033 131037 131064 131083 131127 131146 131154
131183 131603 131664 132693 133048 133049 133166 133806
134096 134221 134358 134437 134662 134792 134806 134824
134873 134874 134892 134910 134968 134974 135057 135084
135085 135097 135102 135108 135126 135232 135267 135286
135287 135300 135336 135386 135582 135622 135646 135744
135894 135895 136069 136239 136501 137041 137099 137515
137586 137612 137825 137911 138068 138117 138179 138180
138181 138182 138281 138296 138368 138380 138992 138450
138466 138467 138483 138536 138568 138574 138647 138677
138693 138700 138729 138730 138853 138907 138942 138978
139018 139095 139096 139097 139126 139167 139221 139272
139421 139435 139546 139564 139576 139693 139717 139793
139911 139912 140370 140388 140443 140563 140589 140696
140820 140837 140886 140967 140972 141062 141092 141101
141205 141273 141298 141397 141423 141462 141487 141493
141509 141514 141515 141518 141523 141531 141533 141542
141555 141566 141640 141664 141670 141692 141698 141701
141725 141775 141854 141866 141881 141902 141921 141936
141937 142088 142168

CESSATION OF PATENTS

104999 105175 105262 105265 105267 105284 105342 105403
105424 105444 105463 105484 105554 105565 105576 105589
105590 105595 105656 105662 105673 105708 105873 105877
112553 134681 139294 140168 140169 141045

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an opposition has been entered by Nandan & Nandan to the restoration of lapsed patent No. 98916 applied for by M. M. Industries.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 120306 granted to Shivshankar Fareek and Jayanta Kumar Barooah for an invention relating to "tea drying machine". The patent ceased on the 12th March, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977.

Any interested person may give notice of opposition for the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 8th June, 1978 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 139294 granted to Arun Kumar Chatterjee for an invention relating to "improved means for producing fused and fixed image of an object in an electrostatic apparatus and a method therefor". The patent ceased on the 15th May, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 10th March, 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 8th June, 1978 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 140355 granted to Rhone-Poulenc S.A. for an invention relating to "process for the preparation of dibenzothiazolyl disulphide". The patent ceased on the 25th October, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 25th February, 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 8th June, 1978 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 140539 granted to Schweiter Engineering Works Ltd. for an invention relating to "yarn spooling traverse apparatus". The patent ceased on the 30th October, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 25th February, 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 8th June, 1978 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 140660 granted to Schweiter Engineering Works Ltd., for an invention relating to "segmented core insert to form a core element for winding bodies and to hold the winding bodies on the spooling spindles". The patent ceased on the 19th November, 1977 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 25th February, 1978.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 8th June, 1978 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application for restoration of Patent No. 130926 dated the 19th July, 1971 made by Sarvoday Industries on the 11th July, 1977 and notified in the Gazette of India, Part III Section 2 dated the 3rd September, 1977 has been allowed and the said patent restored.

(8)

Notice is hereby given that an application for restoration of Patent No. 136329 dated the 16th June, 1972 made by Dilip Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored.

(9)

Notice is hereby given that an application for restoration of Patent No. 136365 dated the 15th June, 1972 made by Pramod Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored.

(10)

Notice is hereby given that an application for restoration of Patent No. 136545 dated the 7th August, 1972 made by Dilip Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored.

(11)

Notice is hereby given that an application for restoration of Patent No. 136556 dated the 7th August, 1972 made by Arun Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored.

(12)

Notice is hereby given that an application for restoration of Patent No. 136557 dated the 7th August, 1972 made by Arun Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored

(13)

Notice is hereby given that an application for restoration of Patent No. 136558 dated the 7th August, 1972 made by Arun Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored,

(14)

Notice is hereby given that an application for restoration of Patent No. 136730 dated the 28th August, 1972 made by Pramod Popatlal Punater on the 20th April, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 13th August, 1977 has been allowed and the said patent restored.

(15)

Notice is hereby given that an application for restoration of Patent No. 137390 dated the 24th August, 1972 made by Yosiaki Kimura on the 18th August, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 29th October, 1977 has been allowed and the said patent restored.

(16)

Notice is hereby given that an application for restoration of Patent No. 139275 dated the 10th May, 1973 made by Manchanhally Venkataramu Shastry Sathyanarayana on the 23rd June, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 3rd September, 1977 has been allowed and the said patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 145707. Saifuddin Mahamedali Raja, Indian National, C/o. Dinco Engineering Works, Strand Road, Import Ware House, Calcutta-700 001, West Bengal, India. "Tubewell pump". June 21, 1977.

Class 1. No. 145816. Sheraton & Co., an Indian Partnership Firm, of 131, Nagindas Master Road, Fort, Bombay-400 001, Maharashtra, India. "Frame of the chair". July 11, 1977.

Class 1. Nos. 145870 & 145871. Raja Mechanical Co. (Pvt.) Ltd., 33-Deputy Ganj, Delhi-110006, (An Indian National Company). "Toy aeroplane". August 1, 1977.

Class 1. No. 145878. Raja Mechanical Co. (Pvt.) Ltd., 33-Deputy Ganj, Delhi-110006, (An Indian National Company). "Toy". August 2, 1977.

Class 3. No. 145600. View Films, an Indian proprietory concern, C-10/1, Model Town, Delhi-110009, India. "Viewer" May 23, 1977.

Class 3. No. 145793. Bata India Limited, a public limited company incorporated under the Indian Companies Act, at No. 30, Shakespeare Sarani, in the town of Calcutta, West Bengal. "Foot wear". July 4, 1977.

Class 3. No. 145795. Tubecon Industries, WZ-8/2, Industrial Area, Kirti Nagar, New Delhi-110015, a firm registered under the partnership Act, 1932. "Cheese tube". July 5, 1977.

Class 3. No. 145929. Macks (India), 134, Reay Road, Bombay-400033, Maharashtra, an Indian proprietory concern. "Foot rule". August 22, 1977.

Class 4. No. 145818. Rheaa Distilleries, David House, Margao, Goa, an Indian partnership concern. "Bottles". July 11, 1977.

Name Index of Applicants for Patents for the Month of January, 1978 (Nos. 1/Cal/78 to 115/Cal/78, 1/Bom/78 to 32/Bom/78, 1/Mas/78 to 13/Mas/78 and 1/Del/78 to 86/Del/78)

Name & Application No.

A

A. E. Staley Manufacturing Company—83/Cal/78.

Abex Corporation—19/Cal/78 and 41/Cal/78.

Ahmedabad Textile Industry's Research Association—19/Bom/78, 20/Bom/78.

Aktiebolaget Medline—81/Cal/78.

Albaret S.A.—4/Del/78.

Aluminum Company of America—26/Del/78, 32/Del/78 and 33/Del/78.

American Flange & Manufacturing Co., Inc—74/Del/78.

American Optical Corporation—106/Cal/78.

Amic S.p.A.—100/Cal/78, 101/Cal/78.

Arqan, M.—2/Del/78.

Automatic Mechanical Handling, Inc.—19/Del/78.

B

Badlani, R.—87/Cal/78.

Balan, A. N.—11/Mas/78.

Balleyguier, A.—39/Del/78.

Bansode, S. S.—25/Bom/78.

Banthia, F. B.—15/Bom/78.

Bassinger Tool Enterprises Ltd.—28/Cal/78.

Basu, B. N.—68/Cal/78.

Bhabha Atomic Research Centre.—4/Bom/78.

Bharat Heavy Electricals Ltd.—17/Del/78, 63/Del/78, and 64/Del/78.

Bharel, S. K.—54/Cal/78.

Bunker Ramo Corporation—79/Cal/78.

Name & Appln. No.

C

C. K. Jamunabai—6/Mas/78.

Calorex India Pvt. Ltd.—36/Cal/78.

Carrier Corporation—12/Del/78.

Cassella Farbwerke Mainkur-Aktiengesellschaft—44/Cal/78.

Charbonnages DE France—71/Cal/78.

Chatterjee, R.—67/Cal/78.

Chicago Pneumatic Tool Company—4/Cal/78.

Chief Controller, Research & Development, Ministry of Defence, Government of India, The.—58/Del/78.

Choudhary, V.—11/Del/78.

Christensson, O.W.—81/Del/78.

Colgate-Palmolive Company—69/Del/78.

Combustion Engineering, Inc.—89/Cal/78.

Compret N. V.—42/Del/78.

Coulter Information Systems, Inc.—97/Cal/78.

Council of Scientific & Industrial Research—14/Del/78, 15/Del/78, 16/Del/78, 59/Del/78, 60/Del/78, 61//78, 62/Del/78, 75/Del/78, 76/Del/78, 85/Del/78 and 86/Del/78.

D

DHV Raa-dgevend Ingenieursbureau B.V.—18/Cal/78 and 22/Cal/78.

Dahanukar, P. P.—22/Bom/78.

Danziger, H. L.—45/Cal/78.

Das, R. N.—90/Cal/78.

Dawn, S. P.—7/Bom/78.

Deb, S. S. (Prof.)—47/Cal/78.

Deutsche Gold-Und Silber-Scheideanstalt Vormals Roessler—35/Cal/78, 74/Cal/78, 75/Cal/78 and 76/Cal/78.

Dexter Corporation, The. 62/Cal/78.

Dhrangadhra Chemicals Works Limited—9/Bom/78.

Dixit, P. N.—47/Cal/78.

Domestic Appliances—32/Bom/78.

Dorr-Oliver Incorporated—24/Del/78.

Durametallic Corporation—34/Cal/78.

E

Economidis, D. G.—84/Cal/78.

Eisenbau Albert Ziefle K. G.—13/Del/78.

Eisenwerk-Gesellschaft Maximilianshutte MBH.—91/Cal/78.

Elpro International Limited.—27/Bom/78.

Engineer, S. S.—18/Bom/78.

English Card Clothing Company Limited, The.—64/Cal/78.

Envirotech Corporation—16/Cal/78.

F

Fertilizer Corporation of India Limited—65/Del/78.

Filippov, D.A.—48/Cal/78.

Fisons Limited—30/Del/78.

Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H.—33/Cal/78.

Frenzel, J.—57/Del/78.

Name & Appln. No.

G

G. R. Industries—31/Del/78.

Ganguli, G. B.—110/Cal/78.

General Electric Company—85/Cal/78.

Girling Limited.—83/Del/78.

Glazunov, S. G.—48/Cal/78.

Global Polution Control Co. (1975) Ltd.—27/Cal/78.

Globe-Union Inc.—5/Cal/78.

Gouria, M. L.—35/Del/78.

Gulf Oil Corporation—105/Cal/78.

Gupta, H. R.—115/Cal/78.

Gupta, L. P.—70/Del/78.

Gupta, S. C. (Dr.).—5/Mas/78.

Guru Rajan, N. K.—8/Mas/78.

Gusev, V. F.—107/Cal/78.

H

Haldyn Glass Works Pvt. Ltd.—10/Bom/78.

Hazen Research, Inc.—40/Del/78, 55/Del/78 and 56/Del/78.

Hindustan Lever Limited.—24/Bom/78 and 26/Bom/78.

Husain, M.—2/Del/78.

I

Indian Institute of Technology Kanpur.—66/Del/78.

Institut Francais DU Petrole.—103/Cal/78 and 104/cal/78.

Institut Tonkoi Organicheskoi-Khimii Imeni A. L. Andzhoiana Akademii Nauk Armyanskoi SSR.—46/Cal/78.

Institut Vysokikh Temperatur Akademii Nauk SSSR.—114/Cal/78.

Institut Zoologii I Parazitologii Akademii Nauk Litovskoi SSR.—73/Cal/78.

International Business Machines Corporation.—71/Del/78

International Power Technology.—12/Cal/78

Irani, N. K.—14/Bom/78.

Ivanov, G. N.—107/Cal/78.

Jhaverti, V.—86/Cal/78.

Jos, M. D.—7/Mas/78.

Joshi, B. P.—37/Del/78

K

Kamat, N. G.—53/Cal/78.

Kearney & Trecker Corpn.—51/Del/78

Kentredder Limited.—73/Del/78.

Keroy Pvt. Ltd.—13/Cal/78

Khronov, A. M.—48/Cal/78.

Klimov, N. E.—48/Cal/78.

Knorr-Bremse GMBH.—96/Cal/78.

Kontarev, V. Y.—107/Cal/78.

Korotkova, L. F.—113/Cal/78

Name & Appln. No.

K (*Contd.*)

Kotian, M. B.—28/Bom/78.

Kraftwerk Union Aktiengesellschaft.—108/Cal/78

Kremlev, V. Y.—107/Cal/78.

Krengel, G. I.—107/Cal/78.

Krjuchkov, I. B.—48/Cal/78.

Krishnan, M. R.—12/Mas/78.

Kumar, N. M.—3/Mas/78.

L

LE Sentier (Societe Anonyme D'Interets Prives).—80/Cal/78.

Leonidova, M. N.—113/Cal/78.

Linde Aktiengesellschaft.—92/Cal/78.

Lucas Industries Limited.—38/Cal/78 and 69/Cal/78

Lupke, G. P. H.—17/Cal/78.

Lupke, M. A. A.—17/Cal/78.

M

Macmull, C.—8/Cal/78.

Macmull, V.—8/Cal/78.

Madnani, A. K.—16/Bom/78.

Mathew, J.—1/Mas/78.

Mathew, M.—1/Mas/78.

Mathur, J. P.—55/Cal/78 and 77/Cal/78.

Matsushita Electric Works Ltd.—109/Cal/78.

Mehta, V. J.—23/Bom/78.

Merkulov, V. V.—48/Cal/78.

Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung.—47/Del/78, 48/Del/78 and 49/Del/78.

Metallgesellschaft A. G.—61/Cal/78.

Midrex Corporation.—39/Cal/78.

Mikhailov, L. A.—113/Cal/78.

Minnesota Mining and Manufacturing Company.—29/Cal/78.

Montedison S.p.A.—37/Cal/78.

Moreshwar, S. C.—2/Bom/78.

Mukherjee, D.—47/Cal/78.

Mukherjee, M. K. (Prof.).—47/Cal/78.

Mukherjee, T. (Dr.).—1/Cal/78 and 40/Cal/78.

N

N. V. Phillip's Glocilampenfabrieken.—42/Cal/78.

Nadella.—9/Cal/78.

Narula, S. K.—67/Del/78, 77/Del/78, 78/Del/78 and 79/Del/78.

National Institute of Design.—3/Bom/78.

Natural Microfertilizers Ltd.—30/Bom/78.

Navakedi, S. A. R.—9/Mas/78 and 10/Mas/78.

O

Orissa Cement Limited.—10/Cal/78.

Name & Appln. No.

P

PA Management Consultants Limited.—10/Del/78.

PMP Auto Industries Private Limited.—31/Bom/78.

Parks, L. C.—44/Del/78.

Patel, P. H.—29/Bom/78.

Patpan Inc.—60/Cal/78.

Paul, B. B. (Dr.).—5/Bom/78 and 6/Bom/78.

Peck, R. E.—24/Cal/78.

Phatak, D. R. (Prof.).—102/Cal/78.

Phatak, V. (Mrs.).—102/Cal/78.

Philips India Limited.—25/Cal/78.

Piaggio & C.S.p.A.—45/Del/78 and 46/Del/78.

Pircon, L. J.—23/Cal/78 and 24/Cal/78.

Plasmesco AG.—98/Cal/78.

Polivoda, E. O.—107/Cal/78.

Preformed Line Produrts Company.—43/Cal/78.

R

RCA Corporation.—2/Cal/78 and 3/Cal/78.

Raj, B.—21/Del/78.

Raman, V.—2/Mas/78.

Ramaswamy, G. V.—3/Del/78.

Rathi Industrial Equipment Co., Ltd.—12/Bom/78.

Registrar, Jadavpur University.—47/Cal/78.

Rex-Rotary International A.S.—72/Del/78.

Rheinmetall GMBH.—63/Cal/78.

Rueger S. A.—99/Cal/78.

Ruhrkohle Aktiengesellschaft.—20/Cal/78.

S

Sab Industri AB.—68/Del/78.

Santal Equipmentes S. A. Comercio E Industria.—54/Del/78.

Sarabhai Research Centre.—13/Bom/78.

Scharfenbergkupplung G.m.b.H.—65/Cal/78.

Schetinin, J. I.—107/Cal/78.

Schick, J. H.—21/Cal/78.

Schloemann-Siemag Aktiengesellschaft.—80/Del/78.

Shagivalcev, M. Z.—107/Cal/78.

Shaida, M. L.—82/Del/78.

Shell Internationale Research Maatschappij B.V.—84/Del/78.

Shin-Etsu Chemical Co., Ltd.—88/Cal/78.

Shroff, B. P.—21/Bom/78.

Shroff, S. P.—21/Bom/78.

Sico Incorporated.—52/Del/78.

Siemens Aktiengesellschaft.—6/Cal/78, 7/Cal/78, 11/Cal/78, 66/Cal/78 and 112/Cal/78.

Name & Appln. No.

S (*Contd.*)

Singh, A. C.—22/Del/78 and 23/Del/78.

Singh, S. N.—11/Bom/78.

Skvortsov, A. N.—107/Cal/78.

Societa Italiana Telecommunicazioni Siemens S.p.A.—15/Cal/78.

Societe D'Etudes DE Maçhines Thermiques S.E.M.T.—38/Del/78, and 43/Del/78.

Societe Nationale ELF. Aquitaine (Production).—7/Del/78, 8/Del/78 and 9/Del/78.

Solanki, N. M.—1/Bom/78.

Sopher, R. C.—8/Cal/78.

Srivastava, J. G.—36/Del/78.

Stamicarbon B. V.—5/Del/78, 6/Del/78 and 20/Del/78.

Standard Oil Company The.—25/Del/78.

Stocznia Szczecinska im. Adolfa Warskiego.—70/Cal/78.

Sulzer Brothers Limited.—53/Del/78.

Sumitomo Chemical Company Limited.—109/Cal/78.

Susrita, K.—30/Cal/78.

T

TI Metsec Limited (formal Metal Sections Limited).—56/Cal/78, 57/Cal/78, 58/Cal/78 and 59/Cal/78.

Tadashi, T.—93/Cal/78.

Takeshi, H.—93/Cal/78.

Tata Engineering and Locomotive Company Limited.—17/Bom/78.

Thaikattil, J. (Dr.).—8/Bom/78.

Thankayyan, S. (Dr.).—4/Mas/78.

Tideland Signal Corporation.—111/Cal/78.

U

UOP Inc.—27/Del/78, 28/Del/78 and 29/Del/78.

USS Engineers and Consultants, Inc.—34/Del/78 and 50/Del/78.

Union Carbide Corporation—50/Cal/78, 82/Cal/78, 94/Cal/78 and 95/Cal/78.

Union Industrial Research Laboratories.—18/Del/78.

Name & Appln. No.

V

Valkanas, G. N.—84/Cal/78.

Vasiliev, S. Z.—113/Cal/78.

Veba-Chemie Aktiengesellschaft.—14/Cal/78.

Venkitasubramanyan, C. S.—13/Mas/78.

Verma, B. (Minor).—82/Del/78.

Verma, K.—82/Del/78.

Verma, K. C.—82/Del/78.

Verma, S. (Minor).—82/Del/78.

Verma, S. B.—1/Del/78.

Verma, V.—82/Del/78.

Vishwakarma, A. N.—36/Del/78.

Voith Getriebe KG.—26/Cal/78.

Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut PO Ochistke Tekhnologicheskikh Gazov, Stochnykh Vod I ispol zovaniju Vtorichnykh Energoresursov Predpriyaty Chernoi. Metallurgi Vnipichermetenergoochistka.—52/Cal/78 and 78/Cal/78.

W

Westinghouse Brake and Signal Company Limited.—41/Del/78.

Wharton Engineers (Elstree) Limited.—72/Cal/78.

Wood, C. H.—49/Cal/78.

Y

Yarmukhametov, A. U.—107/Cal/78.

Z

Zellweger Uster Ltd.—31/Cal/78 and 32/Cal/78.

S. VEDARAMAN
Controller-General of Patents,
Designs and Trade Marks.

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD
AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1978